

# MICROTOMES

*The high-precision modularly assembled rotary microtomes range from a manual unit, type CUT 4062, to the semi-automatic, type CUT 5062 and fully automatic, type CUT 6062. The range is completed by the manual sliding microtome type CUTTEC S.*

## MICROTOME **CUT 4062**

MANUAL  
ROTARY MICROTOME

## MICROTOME **CUT 5062**

SEMI-AUTOMATIC  
ROTARY MICROTOME

## MICROTOME **CUT 6062**

FULLY-AUTOMATIC  
ROTARY MICROTOME

**EXCLUSIVE TO SOLMEDIA LTD IN THE UK**

DESIGN &  
MANUFACTURING  
MADE IN GERMANY

# Overview

## Rotary microtomes



CUT 4062

### CUT 4062

*Manual precision microtome*

**Disposable blade holder**  
(alternatively: standard knife holder)

**Mechanical trimming function in 4 steps,**  
10; 20; 30; 40  $\mu\text{m}$

**Manual feed with ergonomically located**  
**coarse feed wheel**

**Specimen orientation**

**Acoustic signal at end positions**

**Automatic specimen retraction**

### Options

**Section counter, standard specimen clamp**  
(up to 50 x 50 mm), **foil clamp, prism set**

### Specifications

**Cutting thickness** 0.5 - 60  $\mu\text{m}$

**Horizontal advance** 28 mm

**Vertical stroke** 60 mm

**Specimen orientation**  
x/y axis 8°  
z axis 360°

**560 x 550 x 325 mm** (W x D x H)

**33 kg**



CUT 5062

### CUT 5062

*Semi-automatic precision microtome*

**Disposable blade holder**  
(alternatively: standard knife holder)

**Motorised trimming function,**  
0.5 - 750  $\mu\text{m}$

**Specimen orientation**

**2 specimen feed memory positions via button**

**Automatic motorised specimen retraction**

### Options

**Section counter, standard specimen clamp**  
(up to 50 x 50 mm), **foil clamp, prism set**

### Specifications

**Cutting thickness** 0.5 - 100  $\mu\text{m}$

**Horizontal advance** 28 mm

**Vertical stroke** 72 mm

**Specimen orientation**  
x/y axis 8°  
z axis 360°

**520 x 600 x 325 mm** (W x D x H)

**33 kg**



CUT 6062

### CUT 6062

*Fully-automatic precision microtome*

**Disposable blade holder**  
(alternatively: standard knife holder)

**Motorised trimming function,**  
0.5 - 750  $\mu\text{m}$

**Motorised sectioning**  
(section window / variably adjustable cutting speeds)

**Specimen orientation**

**2 specimen feed memory positions via button**

**Automatic motorised specimen retraction**

### Options

**Section counter, standard specimen clamp**  
(up to 50 x 50 mm), **foil clamp, prism set**

### Specifications

**Cutting thickness** 0.5 - 100  $\mu\text{m}$

**Horizontal advance** 28 mm

**Vertical stroke** 72 mm

**Cutting speed variable**  
up to 450 mm/s

**Specimen orientation**  
x/y axis 8°  
z axis 360°

**520 x 600 x 325 mm** (W x D x H)

**34 kg**

# CUT 4062 Manual precision microtome

The SLEE precision microtome **CUT 4062** is designed for all applications in routine, research or industry. Years of experience and customer input have contributed to create one of the best manual microtomes available. The **CUT 4062** combines highest precision with user friendliness as well as best comfort. Like all SLEE microtomes, the **CUT 4062** comes with a complete set of standard components which can be individually adapted to customer's needs, ready to be used out of the box.



## Highlights

- Ergonomic design
- Spacious, integrated section waste tray
- Wide range of accessories
- Hand wheel lock in any position
- Blade holder levers changeable (for left-handed users)
- Specimen retraction with upstroke
- Section counter (optional)
- Second hand wheel brake (optional)
- Coarse feed wheel reversible direction (on demand)

## Item No.

CUT 4062

10065000

## Standard components

### Specimen orientation

**Universal cassette clamp**, orientable  
(alternatively: standard specimen clamp, orientable)

**Disposable blade holder**  
(alternatively: standard knife holder)

### Section waste tray

**Disposable blades**, low profile  
(1 box, 50 pcs.)

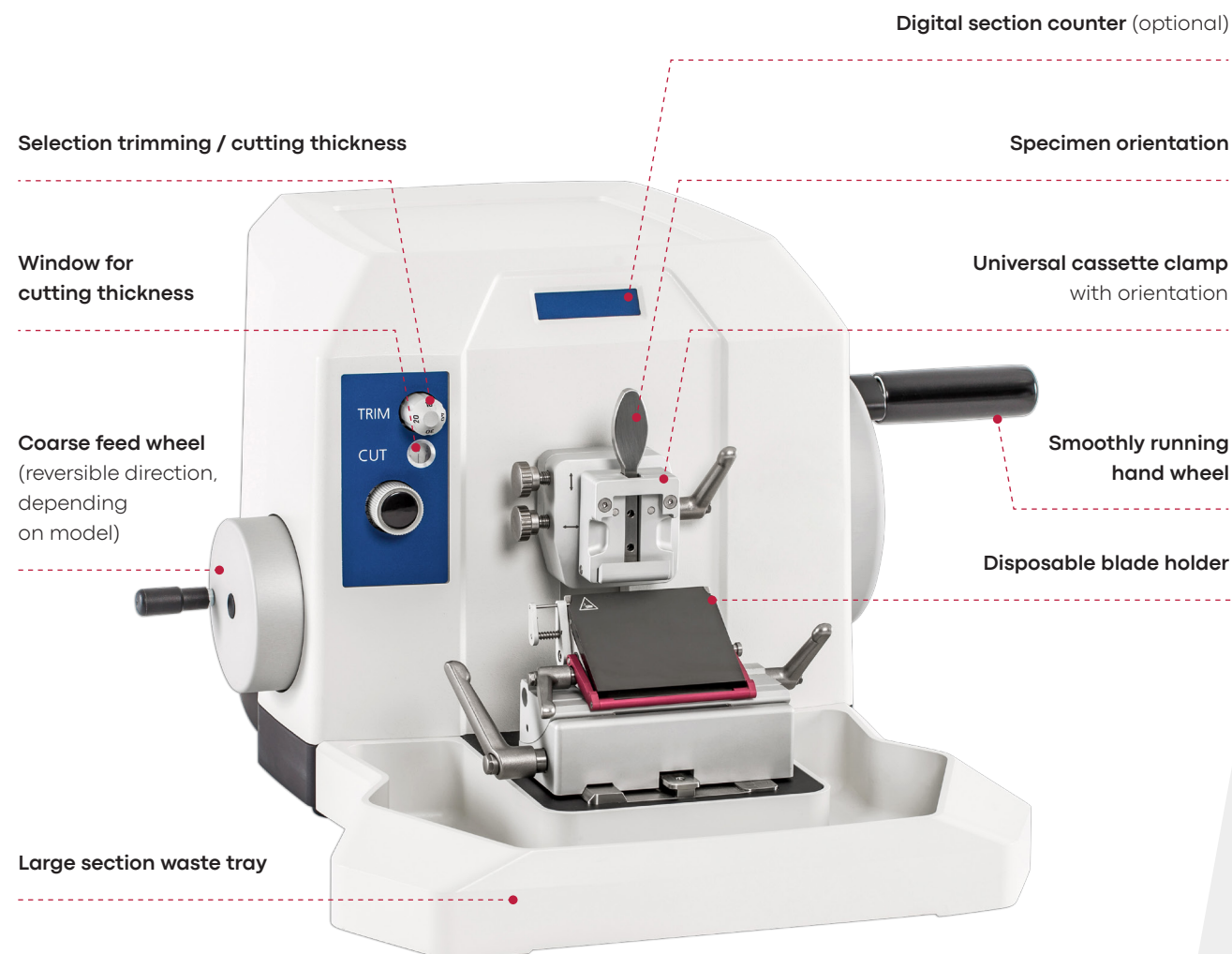
### Dust cover

### Mains cable

### Manual

## Specifications

<b>Section thickness range</b>	0.5 - 60 µm
<b>Section thickness settings</b>	0.5 - 2 µm in 0.5-µm-steps 2 - 10 µm in 1-µm-steps 10 - 60 µm in 2-µm-steps
<b>Trim thickness settings</b>	10 µm, 20 µm, 30 µm, 40 µm
<b>Horizontal advance</b>	28 mm
<b>Vertical stroke</b>	60 mm
<b>Specimen retraction</b>	automatic
<b>Specimen orientation</b>	± 8°
<b>Dimensions (W x D x H)</b>	560 x 550 x 325 mm
<b>Weight</b>	33 kg



### Optional accessories

#### Item No.

Aquatec system	10090056
MTR bench top quick freezing unit	10110000
Magnifier with illumination (dimnable)	10090060
TC65 disposable blade holder (for tungsten carbide blades)	10090041
Tungsten carbide blade (1 pcs.)	28406000
Disposable blades (cf. consumables)	
Glass knife holder (for triangle glass knives)	10090014
Segment arc incl. universal sample holder (for glass knife holder application)	10090015

### Optional accessories

#### Item No.

Super Mega cassette clamp, orientable	10090027
Super Mega cassette clamp, fixed	10090021
Standard specimen clamp, orientable	10090006
Standard specimen clamp, fixed	10090007
Foil clamp (use in standard specimen clamp)	10090025
Standard knife holder	10090008
Knife holder basis unit	10090011
Prism (set)	10090017
Round specimen holders (different diameters)	on demand
Section counter	10090020

More on request

### Easy to use



Trim and cutting thickness are easily adjustable via the centrally located controls. Through the viewing window the set cutting thickness can be seen at any time.

### Section counter



Optional digital section counter at eye level.



# CUT 5062 Semi-automatic precision microtome

The SLEE semi-automatic precision microtome **CUT 5062** offers the simplicity of manual sectioning and the innovation of the motorised specimen feed.

The semi-automatic rotary precision microtome has motorised advance and sectioning which operates on 2 modes; standard and rocking. The **CUT 5062** also includes a section counter for stroke and distance as well and 2 specimen feed memory positions.

Like all SLEE Microtomes, the **CUT 5062** comes with a complete set of standard components which can be individually adapted to customer's needs, ready to be used out of the box.



## Highlights

- Ergonomic design
- Spacious, integrated section waste tray
- Wide range of accessories
- Intuitive control panel
- Hand wheel lock in any position
- Blade holder levers changeable (for left-handed users)
- 2 operation modes (standard and rocking mode)
- Motorised trimming up to 750 µm, programmable
- Motorised advance / return of specimen (2 speeds)
- Display of section counter, section sum and remaining travel
- Tip function for precise specimen approach
- 2 specimen feed memory positions
- Variable retraction
- External control panel (optional)
- Second hand wheel brake (optional)

## Item No.

CUT 5062 100 - 240 V, 50/60 Hz 10070001

## Standard components

Specimen orientation
Universal cassette clamp, orientable (alternatively: standard specimen clamp, orientable)
Disposable blade holder (alternatively: standard knife holder)
Section waste tray
Disposable blades, low profile (1 box, 50 pcs.)
Dust cover
Mains cable
Manual

## Specifications

Section thickness range	0.5 - 100 µm
Section thickness settings	0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 100 µm in 5-µm-steps
Trim thickness settings	0.5 - 750 µm 0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 150 µm in 5-µm-steps 150 - 750 µm in 10-µm-steps
Horizontal advance	28 mm
Feed speed SLOW	75 / 150 / 300 / 600 µm/s
Feed speed	normal 3,000 µm/s
Vertical stroke	72 mm
Specimen retraction	0 - 200 µm, selectable
Specimen orientation	± 8°
Electrical parameters	100 - 240 V, 50/60 Hz
Dimensions (W x D x H)	520 x 600 x 325 mm
Weight	33 kg



Optional accessories	Item No.
Aquatec system	10090056
MTR bench top quick freezing unit	10110000
Magnifier with illumination (dimnable)	10090060
External control panel CUT 5062	10090050
TC65 disposable blade holder (for tungsten carbide blades)	10090041
Tungsten carbide blade (1 pcs.)	28406000
Disposable blades (cf. consumables)	
Glass knife holder (for triangle glass knives)	10090014
Segment arc incl. universal sample holder (for glass knife holder application)	10090015

Optional accessories	Item No.
Super Mega cassette clamp, orientable	10090027
Super Mega cassette clamp, fixed	10090021
Standard specimen clamp, orientable	10090006
Standard specimen clamp, fixed	10090007
Foil clamp (use in standard specimen clamp)	10090025
Standard knife holder	10090008
Knife holder basis unit	10090011
Prism (set)	10090017
Round specimen holders (different diameters)	on demand
More on request	

### Intuitive use

Having a variety of features sometimes ends up in difficult usage, but not with the CUT 5062: The device can be easily controlled via the intuitive control panel.



### All in sight

All settings can be easily seen and monitored in the LCD display being in height of the eyes of the user at the front side of the CUT 5062.



# CUT 6062 Fully-automatic precision microtome

The **CUT 6062** combines high-quality precision with user-friendliness, for best comfort and ergonomics. The fully automatic rotary precision microtome has motorised advance and sectioning which has; 7 different operation modes, a section counter for stroke and distance and 2 specimen feed memory positions

Like all SLEE Microtomes, the **CUT 6062** comes with a complete set of standard components which can be individually adapted to customer's needs, ready to be used out of the box.



## Highlights

- Ergonomic design
- Spacious, integrated section waste tray
- Wide range of accessories
- Intuitive control panel
- Hand wheel lock in any position
- Blade holder levers changeable (for left-handed users)
- High efficient motorised sectioning (section window / variably adjustable cutting speeds)
- 7 different operation modes (motorised: continuous, program, single step, step, window | manual: standard and rocking mode)
- Motorised trimming up to 750 µm, programmable
- Motorised advance / return of specimen (2 speeds)
- Display of section counter, section sum and remaining travel
- Tip function for precise specimen approach
- 2 specimen feed memory positions
- Variable retraction
- External control panel (optional)
- Second hand wheel brake (optional)

## Item No.

CUT 6062 100 - 240 V, 50/60 Hz 10080001

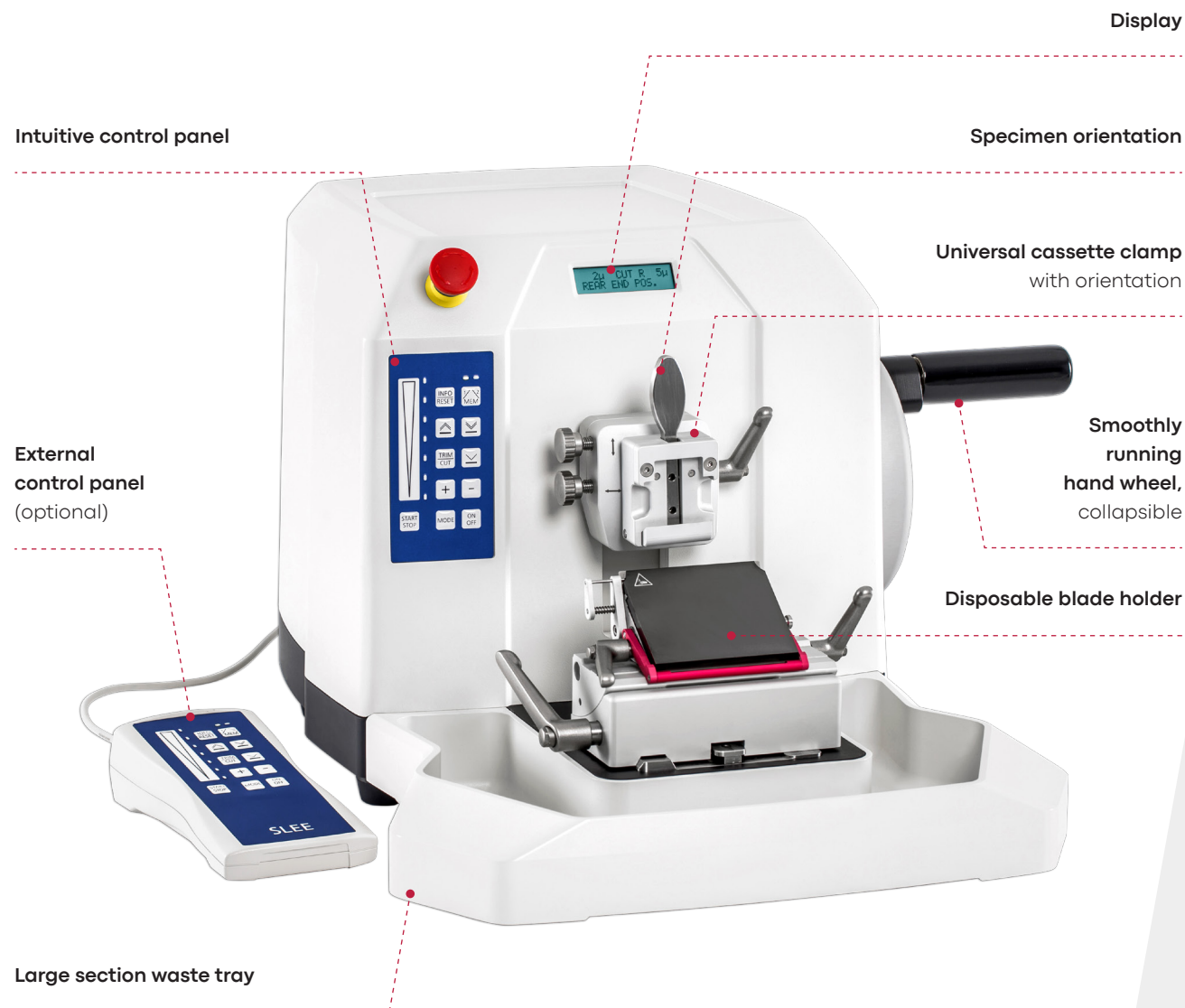
## Standard components

Specimen orientation
Universal cassette clamp, orientable (alternatively: standard specimen clamp, orientable)
Disposable blade holder (alternatively: standard knife holder)
Section waste tray
Disposable blades, low profile (1 box, 50 pcs.)
Foot switch for motor drive
Dust cover
Mains cable
Manual

## Specifications

Section thickness range	0.5 - 100 µm
Section thickness settings	0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 100 µm in 5-µm-steps
Trim thickness settings	0.5 - 750 µm 0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 150 µm in 5-µm-steps 150 - 750 µm in 10-µm-steps
Horizontal advance	28 mm
Feed speed SLOW	75 / 150 / 300 / 600 µm/s
Feed speed	normal 3,000 µm/s
Vertical stroke	72 mm
Cutting speed	up to 450 mm/s
Specimen retraction	0 - 200 µm, selectable
Specimen orientation	± 8°
Electrical parameters	100 - 240 V, 50/60 Hz
Dimensions (W x D x H)	520 x 600 x 325 mm
Weight	34 kg





### Optional accessories

#### Item No.

Aquatec system	10090056
MTR bench top quick freezing unit	10110000
Magnifier with illumination (dimnable)	10090060
External control panel CUT 6062	10090051
TC65 disposable blade holder (for tungsten carbide blades)	10090041
Tungsten carbide blade (1 pcs.)	28406000
Disposable blades (cf. consumables)	
Glass knife holder (for triangle glass knives)	10090014
Segment arc incl. universal sample holder (for glass knife holder application)	10090015

### Optional accessories

#### Item No.

Super Mega cassette clamp, orientable	10090027
Super Mega cassette clamp, fixed	10090021
Standard specimen clamp, orientable	10090006
Standard specimen clamp, fixed	10090007
Foil clamp (use in standard specimen clamp)	10090025
Standard knife holder	10090008
Knife holder basis unit	10090011
Prism (set)	10090017
Round specimen holders (different diameters)	on demand
More on request	

### Collapsible handle



The handle of the hand wheel of the CUT 6062 can be folded in to increase safety when the cutting motor is in operation.

### Comfort



For enjoying highest comfort when using CUT 6062, the device is delivered with a foot switch as a standard accessory.

### Intuitive use



Having a variety of features sometimes ends up in difficult usage, but not with the CUT 6062: The device can be easily controlled via the intuitive control panel.

### All in sight



All settings can be easily seen and monitored in the LCD display being in height of the eyes of the user at the front side of the CUT 6062.



# Beyond standard application

The high precision microtomes of the **CUT** series are the basis for almost all applications where high-quality sectioning is requested. Together with add-on equipment such as the **MTR** bench top quick-freezing unit or the **Aquatec** system the **CUT** microtomes are ready for any kind of high performance cutting in the field of medical and industrial applications.

## Precise orientation



The specimen orientation on the x and y axis enables fast alignment of the specimens in the desired position.

## Flexible



Full flexibility due to the disposable blade holder or standard knife holder and the multiple clamps for any kind of specimen. The clamping levers and blade ejector are changeable (from left to right).

## Easy to clean



The design of the CUT microtomes supports the simplest and easiest cleaning possible.

## Section waste tray



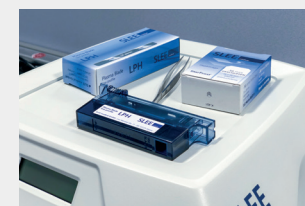
The large waste tray fits perfectly to the base plate of the microtome and collects the waste during sectioning. Disposal of cutting waste is easy and fast.

## Best sight



To make even small biopsy samples visible, CUT microtomes can be equipped with a magnifier with dimmable illumination (optional).

## Organised



All tools needed for sectioning can be placed on the special area on top of the microtome housing. This allows fast and fatigue-free working.

## Perfect fit



The best microtome is nothing without the perfect blade. We offer premium quality high and low profile plasma blades as well as tungsten carbide blades and PTFE coated disposable blades.

## Safety



The easy to operate hand wheel can be locked in any position. This ensures user's safety as well as protection for the sample. The blade holder features a finger protection system for increased safety.

## Ergonomics



All CUT microtomes have been created with the user in mind - ergonomics are just as important as the quality of the section. Fits perfectly on ergotec series workstations.

# Aquatec Transfer system for microtomes of CUT series

The **Aquatec** system provides the solution to the daily challenges of cutting demanding paraffin sections. Already during the cutting process, the section is stretched due to the temperature-controlled laminar water film. The volume flow of the water film can be adjusted at any time according to the cutting requirements.

When the transfer bridge is open, the damp cutting waste is led straight into the waste container and condenses there by collapsing in on itself. This massively reduces the volume. Frequent emptying of the cutting waste container is no longer necessary.

With the bridge closed, the selected section slides gently directly into the temperature-controlled water bath. In the illuminated water bath the section can be evaluated and selected. The high-quality sections can now be easily handled in the accustomed manner. All settings are carried out via the touch display on the front.



## Highlights

- Adjustable laminar water flow for perfect section stretching
- Significant reduction in the volume of section waste
- Easily removable waste tray
- Simplified cutting and simple creation of section ribbons
- Freely positionable unit for section illumination, dimmable
- Intuitive control via touchscreen
- Display with lock function to prevent unauthorised changes of device settings
- Integrated blade ejector
- Integrated power supply and electronic control



Setting up the device



Taking the sample

## Specifications

Water bath temperature	up to 50 °C
Water bath volume	750 ml
Pump reservoir volume	570 ml
Flow rate	0 - 500 ml/min

## Specifications

<b>Dimensions</b> (W x D x H)	
w/o transfer bridge, knife holder	
basic device	
mounted on microtome	300 x 235 x 128 mm
basic device	
not mounted on microtome	300 x 280 x 128 mm
<b>Electrical parameters</b>	
100 - 240 V, 50/60 Hz	
<b>Weight</b>	
basic device	
w/o transfer bridge, knife holder, incl. lid	
knife holder, incl. lid	5.0 kg
knife holder AQ	2.4 kg

# CUT

## External control panel

The external control panel allows the user to control the device from the left or right side of the unit. The greater distance is an additional protection from blades and moving parts.

	Item No.
External control panel CUT 5062	10090050
External control panel CUT 6062	10090051



### Highlights

- Free positioning due to long supply cable with 1.8 m length (suitable for right- and left-handers)
- Reaching over the blade is avoided
- Same user interface of device and control panel
- Secure stand due to rubber feet, no slipping
- User-friendly shape

# Magnifier with illumination

When miniature samples have to be processed precisely, attention to detail is crucial. The illuminated magnifier mounted directly on the microtome basis is the perfect accessory to meet these requirements.

	Item No.
Magnifier with illumination 100 - 240 V, 50/60 Hz	10090060



### Highlights

- Rotatable and adjustable through flexible metal tube
- Lens (Ø 72 mm, diopter: 6)
- Light source: 63 x light-emitting diode (LED), neutral white
- Dimmer (touch function)

MTR

Bench top quick-freezing unit

The **MTR** quick-freezing unit consists of a compressor cooling system with a 2 m flexible isolation tube and a cooling block which can be adapted to a standard specimen clamp of different types of microtomes.

Specifications

Cooling capacity	down to -45 °C
Dimensions (W x D x H)	410 x 485 x 310 mm
Weight	28 kg

Item No.

MTR 230 V, 50/60 Hz for CUT series	10110000
MTR 230 V, 50/60 Hz for Cuttec S	10110001
MTR 115 V, 60 Hz for CUT series	10110002
MTR 115 V, 60 Hz for Cuttec S	10110003



Highlights

- Low operating noise
- Self optimising controller for temperature accuracy
- Manual defrost
- High cooling capacity down to -45 °C

SLEE  
Fresh  
Design.  
New  
Ideas.



# Microtome Cuttec S

Manual sliding microtome with precise mechanics  
and flexible specimen orientation



## Cuttec S

### Manual sliding microtome

The manual sliding microtome **Cuttec S** is designed for all applications in routine, re-search or industry, always focusing on the needs of the user. The precise mechanisms together with the smooth operation are contributing to best quality sections every day. Features like the specimen orientation are included as standard components.

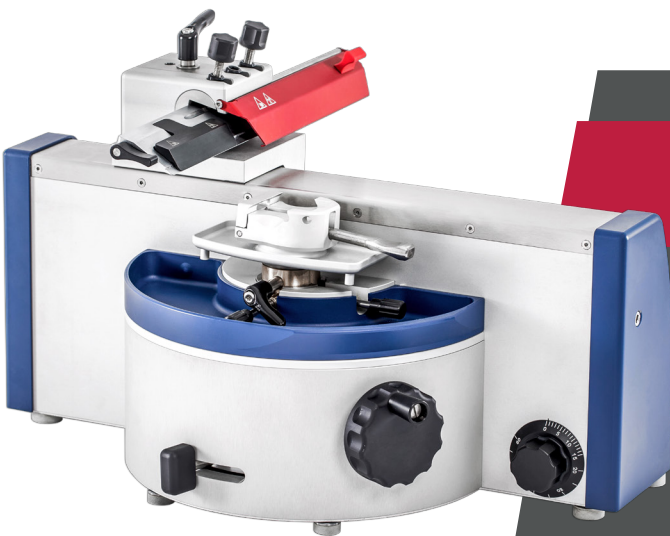
#### Specifications

Section thickness range	0 - 60 µm
Section thickness settings	0 - 15 µm in 1-µm-steps
	15 - 60 µm in 5-µm-steps
Automatic feed	0 - 60 µm
Specimen feed	30 mm
Maximum specimen size	50 x 70 x 20 mm
Specimen orientation	±8°
Length of cutting way	180 mm
Dimensions (W x D x H)	150 x 450 x 200 mm
Weight w/o accessories	18 kg

#### Item No.

Cuttec S

10040001

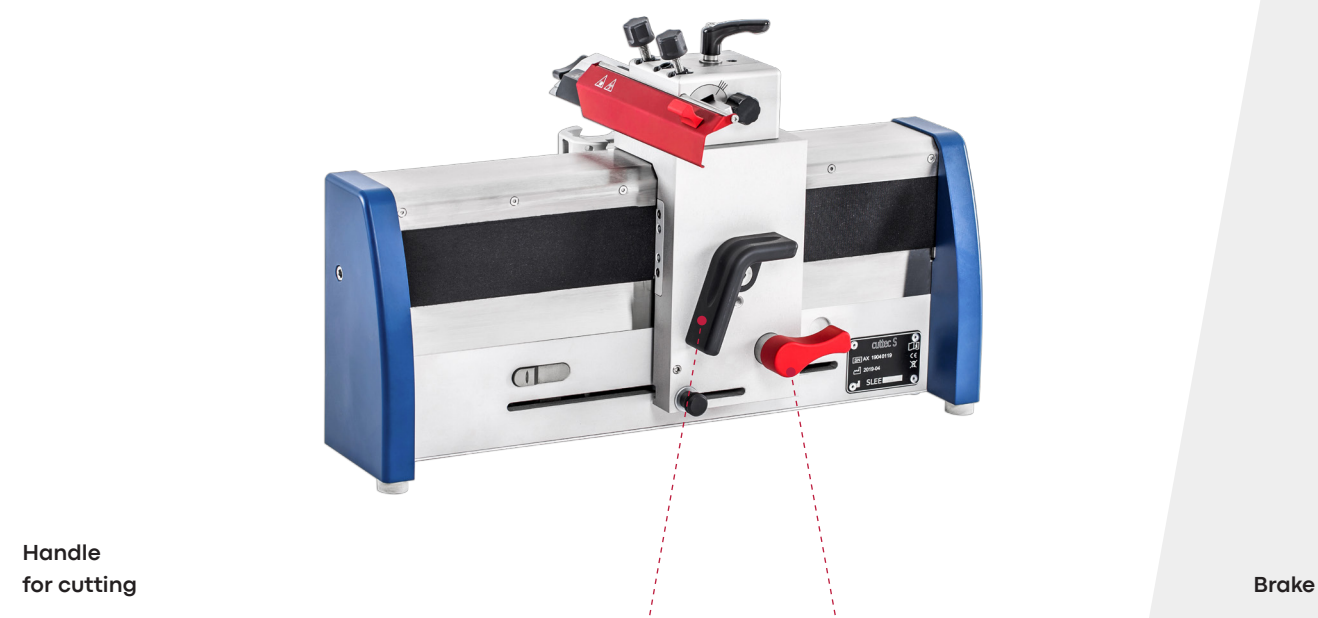
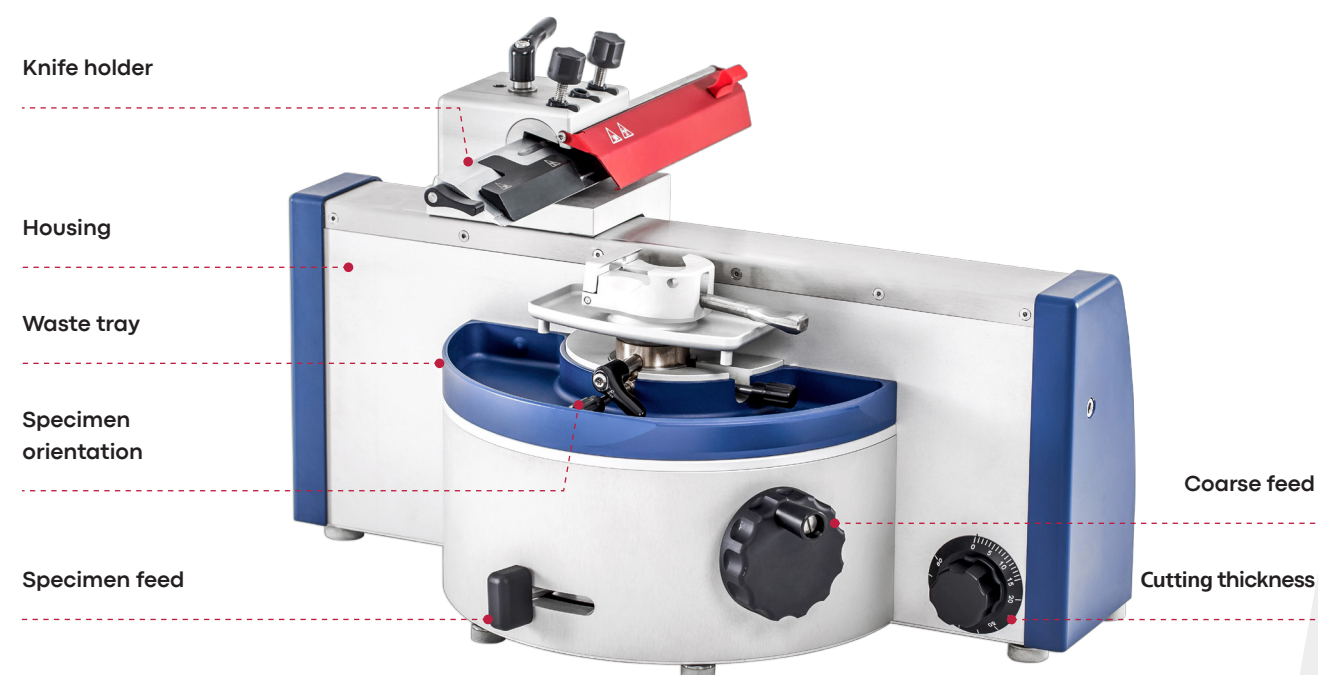


#### Highlights

- High quality sections
- Safety features to protect user and specimen
- Ergonomic design for fatigue-free working
- Precise specimen orientation
- Complete set of accessories
- Waste tray included

# Safe and easy operation

Keeping the safety of the user and specimen in mind, e.g. by the locking mechanism or the finger protection system



## Specimen orientation

Specimen orientation on the x and y axis allows quick alignment of the specimen to the desired position.



## Finger protection

Manipulations with the inserted knife are risky. To prevent injuries, the red finger guard offers protection.



## Waste tray

The waste tray included in the standard equipment perfectly fits to the housing and collects the cutting waste. Emptying is fast and easy.



## Easy Operation

Operation is simple and all settings are within reach of the user. E.g. you can find the cutting thickness selection on the front side of the device. Simply set the number on the wheel.



## Safety

Since the carriage of the Cuttec S is very smooth-running, it is important to brake it easily. This is achieved by the very easily accessible brake.



## Perfect fit

The best microtome is nothing without the perfect blade. SLEE offers both low and high profile blades that perfectly fit the Cuttec S.







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